

IN THE CLAIMS

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Claim 1 has been amended as follows:

1. (Amended) In an X-ray examination arrangement having an X-ray source mounted at a gantry which is rotatable around a rotational axis, the improvement of a cooling arrangement for said X-ray source comprising:

AZ a ring-like heat exchanger disposed at said gantry having at least two heat exchange elements thermally conductively connected to each other, with at least one of said heat exchange elements being thermally conductively connected with said X-ray source.

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Please cancel claim 5.

Claim 6 has been amended as follows:

U3 6. (Amended) The improvement of claim 1, further comprising a [circumferential] covering proceeding circumferentially around said rotational axis and disposed between said at least two heat exchange elements.

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Claim 8 has been amended as follows:

AFC 2 8. (Amended) In an X-ray examination arrangement having an X-ray source mounted at a gantry which is rotatable around a rotational axis, the improvement of a cooling arrangement for said X-ray source comprising:

a first ring-like heat exchanger disposed at said gantry and in thermally conductive connection with said X-ray source; and

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a second ring-like heat exchanger disposed in a thermally conductive path with said first heat exchanger, with said first heat exchanger transferring heat from said X-ray source to said second heat exchanger, said second heat exchanger being stationary relative to said first heat exchanger.

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Please cancel claim 9.

Claim 14 has been amended as follows:

AS 14. (Amended) The improvement of claim 13, further comprising a covering proceeding circumferentially around said rotational axis and disposed between said at least two heat exchange elements of said second heat exchanger.

Claim 17 has been amended as follows:

AP 17. (Amended) A computed tomography apparatus comprising:
a gantry rotatable around a rotational axis;
an X-ray source and an X-ray detector mounted opposite to each other on said gantry, said X-ray source emitting heat during operation thereof; and
a ring-like heat exchanger disposed at said gantry having at least two heat exchange elements thermally conductively connected to each other, with at least one of said heat exchange elements being thermally conductively connected to said X-ray source for transferring said heat from said X-ray source.

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Please add the following new claims 19-21:

91 19. A computed tomography apparatus as claimed in claim 18, wherein said first heat exchanger is rotatable around said rotational axis together with said gantry, and further comprising a plurality of inter-engaging annular guide devices for guiding an airstream, generated by rotation of said first heat exchanger and heated at said first heat exchanger, from said first heat exchanger to said second heat exchanger.

100 B3 sub C4 20. A computed tomography apparatus comprising:
a gantry rotatable around a rotational axis;
an X-ray source and an X-ray detector mounted opposite to each other on said gantry, said X-ray source emitting heat during operation thereof;
a first ring-like heat exchanger disposed at said gantry and thermally conductively connected to said X-ray source; and
a second heat exchanger disposed in a thermally conductive path with said first heat exchanger, with said first heat exchanger transferring heat from said X-ray source to said second heat exchanger, and said second heat exchanger being stationary relative to said first heat exchanger.

21. A computed tomography apparatus as claimed in claim 20, wherein said first heat exchanger is rotatable around said rotational axis together with said gantry, and further comprising a plurality of inter-engaging annular guide devices for guiding an airstream, generated by rotation of said first heat exchanger and heated at said first heat exchanger, from said first heat exchanger to said second heat exchanger.